

200315934-1

10/817,012

IN THE SPECIFICATION:

Please amend the following paragraphs as indicated:

[0031] Fig. 2 illustrates an exemplary SLM (103) that may be used in the above-described display system (100; Fig. 1) according to one exemplary embodiment. The exemplary SLM (103) of Fig. 2 comprises an array of micromirrors (120), or SLM pixel elements, for illustrative purposes. The array of micromirrors (120) comprises a number of rows of micromirrors (120). The micromirrors (120) may be operated in a digital, or bistable, manner. Digital operation fully deflects a given micromirror to either a first position or a second position. The first position is the "on" position and the second position is the "off" position. Light generated by the light source (101; Fig. 1) illuminates the entire array of micromirrors. Micromirrors deflected to the first position reflect light along a first path, whereas micromirrors deflected to a second position reflect light along a second path. The display optics (104; Fig. 1) of the display system (100; Fig. 1) ~~collects~~ collect the light from the mirrors in the first or "on" position and ~~focuses~~ focus the light onto the viewing surface (105; Fig. 1). The light reflected by micromirrors in the second or "off" position is prevented from reaching the viewing surface. In one exemplary embodiment, each micromirror or SLM pixel element may correspond to a pixel location on the viewing surface (105; Fig. 1) upon which the image is displayed. A pixel location on the viewing surface (105; Fig. 1) associated with an SLM pixel element in the "on" position is illuminated, whereas a pixel location on the viewing surface (105; Fig. 1) associated with an SLM pixel element in the "off" position is not illuminated or is in a "black" state.

200315934-1

10/817,012

[0039] In one exemplary embodiment, the left and right image sub-frames may include different color portions of light that ~~defines~~ define an image frame. For example, the left image sub-frame may include the red, green, and blue portions of the light defining the image frame and the right image sub-frame may include the cyan, yellow, and magenta portions of the light defining the image frame. In one exemplary embodiment, the left and right image sub-frames may include any number of colors. For example, the left image sub-frame may alternatively include just the red and blue portions of the light defining the image frame and the right image sub-frame may include just the green portion of the light defining the image frame. In another example, the left image sub-frame may include red, green, and blue and the right image sub-frame may include cyan and yellow. Furthermore, it is important to note that a particular color may be in either the left or right image sub-frame.

[0049] In one exemplary embodiment, the 2D coordinate conversion function (131) may be configured to process the image data to define a 2D image frame that is to be displayed on the viewing surface (105) during a frame period. In one exemplary embodiment, the 2D coordinate conversion function (131) and the 3D coordinate conversion function (130) may both process the image data regardless of whether the display system (100) is operating in 2D or 3D mode. The data defining the 2D image frame may be temporarily stored in a 2D frame buffer (134) before being sent to the modulator drive electronics (107). The modulator drive electronics (107) may then use the data in the 2D frame buffer (~~132~~) (134) to cause the SLM (103) to generate the 2D image frame. The 2D image frame may then be displayed on the viewing surface (105).